

CLAIMS

1. Razor (1) comprising:
 - an elongated hollow handle (2) having a longitudinal axis (X) , said handle (2) having a front end (3) and a back end (4) opposite to the front end (3),
 - a first razor head (6) and a second razor head (7), both mounted onto a support (8) which is mounted in the handle (2) and is slideable with respect of the same along a direction substantially parallel to the handle axis (X), between at least:
 - a first use position in which said first razor head (6) projects outward from the front end (3) of the handle (2) to allow shaving, while the second razor head (7) is lodged within the handle (2), and
 - a second use position in which said second razor head (7) projects outward from the back end (4) of the handle (2) to allow shaving, while the first razor head (6) is lodged within the handle (2),
 - a manually operable actuator (36) mounted on the support (8) for moving the same from one position to the other.
2. Razor (1) according to claim 1, wherein the support (8) is capable of occupying a third or intermediate position in which both razor heads (6, 7) are lodged within the handle (2).
3. Razor (1) according to claim 1, further comprising means (36, 46, 47, 50, 51, 57, 61, 63) for locking said support (8) in its first or second use position.
4. Razor (1) according to claim 2, further comprising means (36, 46, 47, 50, 51, 57, 62) for locking said support in its intermediate position.
5. Razor (1) according to claim 3 or claim 4, wherein said locking means are at least partly provided onto said manually operable actuator (36).

6. Razor (1) according to claim 5, wherein said actuator (36) comprises a hollow body (37) and a pusher (47) provided with arms (50, 51) capable of being clipped in slots (61, 62, 63) provided in the handle (2), and wherein said pusher (47) is slideable with respect of said hollow body (37), between a locking position in which the arms (50, 51) are received in the slots (61, 62, 63), and an unlocking position in which the arms (50, 51) are located outward from the slots (61, 62, 63).

7. Razor (1) according to claim 6, further comprising a compression spring (57) which permanently biases the pusher (47) toward its locking position.

8. Razor (1) according to any of claims 1-7, wherein said handle (2) comprises a pair of longitudinal rails (30, 31) which slidably cooperate with the support (8) so as to guide it during movement.

9. Razor (1) according to any of claims 1-7, wherein the razor heads (6, 7) have different sizes.

10. Razor (1) according to any of claims 1-8, wherein each razor head (6, 7) consists in a removable cartridge, and wherein the razor (1) comprises a lock-and-release mechanism (65) for disposal and replacement of each razor head (6, 7).

11. Razor (1) according to claim 10, wherein each lock-and-release mechanism (65) is mounted on the support (8), at an end thereof.

12. Razor (1) according to claim 11,
wherein each lock-and release mechanism (65) comprises:

- a resilient V-shaped retainer (68) having two legs (69, 70) provided with bearing members (71) for the mounting of a razor head (6, 7),
- a plunger (74);
- a spring (76) biasing the plunger (74) towards the razor head (6, 7);
- a cam member (73) for biasing the legs (69, 70) of the retainer (68) away from each other,

wherein the legs (69, 70) of the retainer (68) have lateral wings (97), and

wherein the razor (1) further comprises a pair of actuators (77) for triggering said lock-and-release mechanism (65), each actuator (77) comprising:

- a flat spring member (80) having a fixed portion (81) attached to the handle (2) and a flexible portion (79),
- a button (78) accessible to the fingers of a user and cooperating with said flexible portion (79),

whereby, in one use position, the lateral wings (97) cooperate with the flexible portion (79), whereas in the intermediate position or in the other use position the lateral wings (97) cooperate with the fixed portion (81).

13. Razor (1) according to claim 12, wherein the handle (2) comprises a bottom shell member (9) and a top shell member (10), and wherein the spring members (80) form clip members for holding said shell members (9, 10) together.

14. Razor (1) according to claim 13, wherein the fixed portion (81) of each spring member (80) comprises a pair of holes (89, 91) which cooperate with hooks (90, 92) formed in the bottom shell member (9) and the top shell member (10), respectively.

15. Razor (1) according to any of claims 1-9, further comprising a movable or flexible cover covering each end of the handle when the corresponding razor head is lodged within the handle.